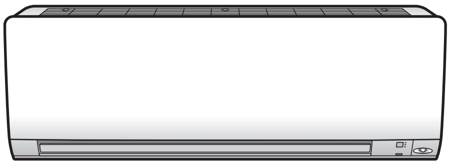
DAIKIN



DAIKIN ROOM AIR CONDITIONER

INSTALLATION MANUAL

R410A Split Series

INVERTER

Installation manual
Installationsanleitung
Manuel d’installation
Installatiehandleiding
Manual de instalación
Manuale d’installazione
Εγχειρίδιο εγκατάστασης
Manual de instalação
Руководство по монтажу
Montaj kılavuzları

MODELS

FTXS35K2V1B
FTXS42K2V1B
FTXS50K2V1B

CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSERKLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING
CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DI-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ
CE - OPFYLDELSESERKLÆRING
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE
CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUUDESTA
CE - PROHLÁŠENÍ-O-SHODĚ
CE - IZJAVA-O-USKLAĐENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAŢIE-DE-CONFORMITATE
CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ
CE - ATITIKTIES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁSENIE-ZHODY
CE - UYUMLULUK-BİLDİRİSİ

DAIKIN INDUSTRIES, LTD.

01 (GB) declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 (D) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:
03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 (E) declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
06 (I) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
07 (GR) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
09 (RUS) заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:
10 (DK) erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:
11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
12 (N) erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon innebærer at:
13 (FIN) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:
14 (CZ) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:
15 (HR) izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 (H) teljes felelőssége tudatában kijelenti, hogy a klímaberendezés modellek, melyekre e nyilatkozat vonatkozik:
17 (PL) deklaruje na własną i wyłączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja:
18 (RO) declară pe proprie răspundere că aparatele de aer condiţionat la care se referă această declaraţie:
19 (SLO) z vso odgovornostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:
20 (EST) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:
21 (BG) декларира на своя отговорност, че моделите климатична инсталация, за които се отнася тази декларация:
22 (LT) visiška savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
23 (LV) ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:
24 (SK) vyhlasuje na vlastnú zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
25 (TR) tamamen kendi sorumluluğunda olmak üzere bu bildirinin ilgili olduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

FTXS35K2V1B, FTXS42K2V1B, FTXS50K2V1B

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
06 sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:
09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:
11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:
12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at disse brukes i henhold til våre instrukser:
13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:
14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:
16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:
17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami:
18 sunt în conformitate cu următorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiţia ca acestea să fie utilizate în conformitate cu instrucţiunile noastre
19 skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:
20 on vastavuses järgmis(t)e standardi(te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele:
21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции:
22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našim návodom:
25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur:

EN60335-2-40,

01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le prescrizioni per:
07 με τήρηση των διατάξεων των:
08 de acordo com o previsto em:
09 в соответствии с положениями:
10 under iagttagelse af bestemmelserne i:
11 enligt villkoren i:
12 gitt i henhold til bestemmelsene i:
13 noudattaen määräyksiä:
14 za dodržení ustanovení předpisu:
15 prema odredbama:
16 követi a(z):
17 zgodnie z postanowieniami Dyrektyw:
18 în urma prevederilor:
19 ob upoštevanju določb:
20 vastavalt nõuetele:
21 следвайки клаузите на:
22 laikantis nuostatų, pateikiamų:
23 ievērojot prasības, kas noteiktas:
24 održiavajúc ustanovenia:
25 bunun koşullarına uygun olarak:

Low Voltage 2006/95/EC
Machinery 2006/42/EC **
Electromagnetic Compatibility 2004/108/EC *

01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals geamendeerd.
05 Directivas, según lo enmendado.
06 Direttive, come da modifica.
07 Οδηγιών, όπως έχουν τροποποιηθεί.
08 Directivas, conforme alteração em.
09 Директив со всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med företagna ändringar.
12 Direktiver, med foretatte endringer.
13 Direktiivejä, sellaisina kuin ne ovat muutettuina.
14 v platném znění.
15 Smjernice, kako je izmijenjeno.
16 irányelv(ek) és módosításaik rendelkezéseit.
17 z późniejszymi poprawkami.
18 Directivelor, cu amendamentele respective.
19 Direktive z vsemi spremembami.
20 Direktiivid koos muudatustega.
21 Директиви, с техните изменения.
22 Direktyvose su papildymais.
23 Direktīvās un to papildinājumos.
24 Smernice, v platnom znení.
25 Değiştirilmiş halleriyle Yönetmelikler.

01 **Note *** as set out in <A> and judged positively by <B> according to the **Certificate** <C>.
02 **Hinweis *** wie in der <A> aufgeführt und von <B> positiv beurteilt gemäß **Zertifikat** <C>.
03 **Remarque *** tel que défini dans <A> et évalué positivement par <B> conformément au **Certificat** <C>.
04 **Bemerk *** zoals vermeld in <A> en positief beoordeeld door <B> overeenkomstig **Certificaat** <C>.
05 **Nota *** como se establece en <A> y es valorado positivamente por <B> de acuerdo con el **Certificado** <C>.
06 **Nota *** delineato nel <A> e giudicato positivamente da <B> secondo il **Certificato** <C>.
07 **Σημείωση *** όπως καθορίζεται στο <A> και κρίνεται θετικά από το <B> σύμφωνα με το **Πιστοποιητικό** <C>.
08 **Nota *** tal como estabelecido em <A> e com o parecer positivo de <B> de acordo com o **Certificado** <C>.
09 **Примечание *** как указано в <A> и в соответствии с положительным решением <B> согласно **Свидетельству** <C>.
10 **Bemærk *** som anført i <A> og positivt vurderet af <B> i henhold til **Certifikat** <C>.
11 **Information *** enligt <A> och godkänts av <B> enligt **Certifikatet** <C>.
12 **Merk *** som det fremkommer i <A> og gjennom positiv bedømmelse av <B> ifølge **Sertifikat** <C>.
13 **Huom *** jotka on esitetty asiakirjassa <A> ja jotka <B> on hyväksynyt **Sertifikaatin** <C> mukaisesti.
14 **Poznámka *** jak bylo uvedeno v <A> a pozitivně zjištěno <B> v souladu s **osvědčením** <C>.
15 **Napomena *** kako je izloženo u <A> i pozitivno ocijenjeno od strane <B> prema **Certifikatu** <C>.
16 **Megjegyzés *** a(z) <A> alapján, a(z) <B> igazolta a megfelelést, a(z) <C> **tanúsítvány** szerint.
17 **Uwaga *** zgodnie z dokumentacją <A>, pozytywną opinią <B> i **Świadectwem** <C>.
18 **Notă *** aşa cum este stabilit în <A> şi apreciat pozitiv de <B> în conformitate cu **Certificatul** <C>.
19 **Opomba *** kot je določeno v <A> in odobreno s strani <B> v skladu s **certifikatom** <C>.
20 **Märkus *** nagu on näidatud dokumendis <A> ja heaks kiidetud <B> järgi vastavalt **sertifikaadile** <C>.
21 **Забележка *** както е изложено в <A> и оценено положително от <B> съгласно **Сертификата** <C>.
22 **Pastaba *** kaip nustatyta <A> ir kaip teigiamai nuspręsta <B> pagal **Sertifikatą** <C>.
23 **Piezīmes *** kā norādīts <A> un atbilstoši <B> pozitīvajam vērtējumam saskaņā ar **sertifikātu** <C>.
24 **Poznámka *** ako bolo uvedené v <A> a pozitívne zistené <B> v súlade s **osvedčením** <C>.
25 **Not *** <A>'da belirtildiği gibi ve <C> **Sertifikasına** göre <B> tarafından olumlu olarak değerlendirildiği gibi.

<A>	DAIKIN.TCF.015 P9/09-2012
<B>	DEKRA Certification B.V. (NB0344)
<C>	74736-KRQ/EMC97-4957

01** Daikin Europe N.V. is authorised to compile the Technical Construction File.
02** Daikin Europe N.V. hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.
03** Daikin Europe N.V. est autorisé à compiler le Dossier de Construction Technique.
04** Daikin Europe N.V. is bevoegd om het Technisch Constructiedossier samen te stellen.
05** Daikin Europe N.V. está autorizado a compilar el Archivo de Construcción Técnica.
06** Daikin Europe N.V. è autorizzata a redigere il File Tecnico di Costruzione.
07** Η Daikin Europe N.V. είναι εξουσιοδοτημένη να συντάξει τον Τεχνικό φάκελο κατασκευής.
08** A Daikin Europe N.V. está autorizada a compilar a documentação técnica de fabrico.
09** Компания Daikin Europe N.V. уполномочена составить Комплект технической документации.
10** Daikin Europe N.V. er autoriseret til at udarbejde de tekniske konstruktionsdata.
11** Daikin Europe N.V. är bemyndigade att sammanställa den tekniska konstruktionsfilen.
12** Daikin Europe N.V. har tillatelse til å kompilere den Tekniske konstruksjonsfilen.
13** Daikin Europe N.V. on valtuutettu laatimaan Teknisen asiakirjan.
14** Společnost Daikin Europe N.V. má oprávnění ke kompilaci souboru technické konstrukce.
15** Daikin Europe N.V. je ovlašten za izradu Datoteke o tehničkoj konstrukciji.
16** A Daikin Europe N.V. jogosult a műszaki konstrukciós dokumentáció összeállítására.
17** Daikin Europe N.V. ma upoważnienie do zbierania i opracowywania dokumentacji konstrukcyjnej.
18** Daikin Europe N.V. este autorizat să compileze Dosarul tehnic de construcţie.
19** Daikin Europe N.V. je pooblaščen za sestavo datoteke s tehnično mapo.
20** Daikin Europe N.V. on volitatud koostama tehnilist dokumentatsiooni.
21** Daikin Europe N.V. е оторизирана да състави Акта за техническа конструкция.
22** Daikin Europe N.V. yra įgaliota sudaryti šį techninės konstrukcijos failą.
23** Daikin Europe N.V. ir autorizēts sastādīt tehnisko dokumentāciju.
24** Spoločnosť Daikin Europe N.V. je oprávnená vytvoriť súbor technickej konštrukcie.
25** Daikin Europe N.V. Teknik Yapı Dosyasını derlemeye yetkilidir.

Daikin Europe N.V., Zandvoordestraat 300, B-8400 Oostende Belgium

3SB65451-17F

DAIKIN

Shinri Sada
Manager Quality Control Department
2012, 10, 11

DAIKIN INDUSTRIES, LTD.
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

01 Addendum to instructions delivered with the equipment:
The English text is the original instruction. Other languages are translations of the original instructions.
02 Ergänzung zu den mit der Ausrüstung gelieferten Instruktionen:
Bei der englischen Textfassung handelt es sich um das Original. Bei den Anleitungen in anderen Sprachen handelt es sich um Übersetzungen des Originals.
03 Addendum aux instructions fournies avec l équipement:
Le texte anglais correspond aux instructions d origine. Les autres langues sont les traductions des instructions d origine.
04 Bijvoegsel voor bij de apparatuur geleverde instructies:
De Engelse tekst is de oorspronkelijke versie. Andere talen zijn vertalingen van de oorspronkelijke instructies.
05 Anexo a las instrucciones suministradas con el equipo:
El texto en inglés constituye las instrucciones originales. El resto de los idiomas son traducciones de las instrucciones originales.
06 Aggiunta alle istruzioni in dotazione con l apparecchio:
Il testo in inglese corrisponde alle istruzioni originali. Le altre lingue sono traduzioni delle istruzioni originali.
07 Παράρτημα οδηγιών που παρέχονται με τον εξοπλισμό:
Το αγγλικό κείμενο είναι οι πρωτότυπες οδηγίες. Οι άλλες γλώσσες είναι μεταφράσεις των πρωτότυπων οδηγιών.
08 Adenda às instruções fornecidas com o equipamento:
As instruções foram redigidas originalmente em inglês. As versões noutras línguas são traduções da redacção original.

09 Дополнение к инструкциям, прилагаемым к оборудованию:
Оригиналом инструкции является текст на английском языке. Текст на других языках является переводом с оригинала.
10 Tillæg til vejledningen leveret sammen med dette udstyr:
Vejledningens originalsprog er engelsk. Andre sprog er oversættelser af den originale vejledning.
11 Tillägg till instruktionerna som medföljde utrustningen:
Den engelska texten är originalinstruktionerna. Övriga språk är översättningar av originalinstruktionerna.
12 Tillegg til instruksjoner som følger med utstyret:
Den engelske teksten inneholder originalinstruksjonene. Andre språk er oversettelser av originalinstruksjonene.
13 Lisäys laitteiston mukana toimitettuihin ohjeisiin:
Englanninkielinen teksti on alkuperäinen ohje. Muut kielet ovat alkuperäisten ohjeiden käännöksiä.
14 Dodatek k pokynům dodávaným k zařízení:
Originální návod je v angličtině. Ostatní jazyky jsou překladem originálního návodu.
15 Dodatak uputama isporučenim s opremom:
Engleski tekst je originalna uputa. Ostali jezici su prijevodi originalne upute.
16 Kiegészítés a berendezéshez mellékelt útmutatóhoz:
Az útmutató eredeti szövege az angol nyelvű szöveg. A többi nyelvű változat az útmutató eredeti szövegének a fordítása.

17 Uzupełnienie informacji odnośnie instrukcji dostarczanych z urządzeniem:
Oryginał instrukcji opracowano w języku angielskim. Instrukcje w pozostałych językach są tłumaczeniami instrukcji oryginalnej.
18 Anexă la instrucţiunile livrate cu echipamentul:
Textul în limba engleză este instrucţiunea originală. Celelalte limbi sunt traducerile instrucţiunilor originale.
19 Dodatek k navodilom, priložen opremi:
Izvorni jezik teh navodil je angleščina. Navodila v drugih jezikih so prevodi navodil v izvornem jeziku.
20 Lisa varustusega koos tarnitud juhenditele:
Ingliskeelne tekst on originaaljuhend. Teised keeled on originaaljuhendite tõlked.
21 Допълнение към инструкциите, предоставени с оборудването:
Текстът на английски език е оригиналната инструкция. Текстовете на останалите езици са преводи на оригиналните инструкции.
22 Priedas prie instrukcijų, pristatytų su įranga:
Angliškas tekstas yra originali instrukcija. Tekstai kitomis kalbomis yra šios instrukcijos originalo vertimas.
23 Papildinājums kopā ar iekārtām piegādātajām instrukcijām:
Oriģinālā instrukcija ir teksts angļu valodā. Teksti pārējās valodās ir oriģinālo instrukciju tulkojumi.
24 Doplnok k pokynom dodaným spolu so zariadením:
Originálny návod je v angličtine. Ostatné jazyky sú preklady originálneho návodu.
25 Ekipman ile birlikte verilen talimatlara ek:
İngilizce metin asıl talimattır. Diğer diller asıl talimatların çevirileridir.

Safety Precautions

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices

⚠ WARNING ....**Failure to follow these instructions properly may result in personal injury or loss of life.**

⚠ CAUTION ....**Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.**

- The safety marks shown in this manual have the following meanings:

Be sure to follow the instructions.	Be sure to establish an earth connection.	Never attempt.

- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual.

⚠ WARNING

- Ask your dealer or qualified personnel to carry out installation work.
  Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual.
  Improper installation may result in water leakage, electric shocks or fire.
- Be sure to use only the specified accessories and parts for installation work.
  Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
  A foundation of insufficient strength may result in the equipment falling and causing injury.
- Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only.
  Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.
- Use a cable of suitable length.
  Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires.
  Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened.
  Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.
- If refrigerant gas leaks during installation, ventilate the area immediately.
  Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage.
  Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R410A).
  The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor.
  If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- During pump-down, stop the compressor before removing the refrigerant piping.
  If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
- Be sure to earth the air conditioner.
  Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- Be sure to install an earth leakage breaker.
  Failure to install an earth leakage breaker may result in electric shocks or fire.

⚠ CAUTION

- Do not install the air conditioner at any place where there is a danger of flammable gas leakage.
  In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation.
  Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flare nut according to the specified method such as with a torque wrench.
  If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.

Accessories

Indoor unit Ⓐ – Ⓗ ,

Ⓐ Mounting plate	1	Ⓓ Remote controller holder	1	Ⓖ Operation manual	1
Ⓑ Titanium apatite photocatalytic air-purifying filter	2	Ⓔ Dry battery AAA. LR03 (alkaline)	2	Ⓗ Installation manual	1
Ⓒ Wireless remote controller	1	Ⓕ Indoor unit fixing screw (M4 × 12L)	2		

Choosing an Installation Site

- Before choosing the installation site, obtain user approval.

1. Indoor unit

- The indoor unit should be sited in a place where:
  1) the restrictions on installation specified in the indoor unit installation drawings are met,
  2) both air inlet and air outlet have clear paths met,
  3) the unit is not in the path of direct sunlight,
  4) the unit is away from the source of heat or steam,
  5) there is no source of machine oil vapour (this may shorten indoor unit life),
  6) cool (warm) air is circulated throughout the room,
  7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
  8) the unit is at least 1m away from any television or radio set (unit may cause interference with the picture or sound),
  9) no laundry equipment is located.

2. Wireless remote controller

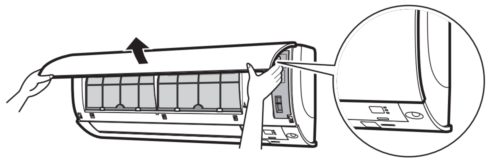
- Turn on all the fluorescent lamps in the room, if any, and find the site where remote controller signals are properly received by the indoor unit (within 7m).

Preparation before Installation

1. Removing and installing the front panel

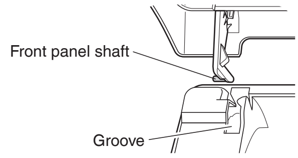
- **Removal method**

1) Place your fingers in the indentations on the main unit (one each on the left and right sides), and open the front panel until it stops.
2) Continue to open the front panel further while sliding the panel to the right and pulling it toward you in order to disengage the front panel shaft on the left side. To disengage the front panel shaft on the right side, slide the panel to the left while pulling it toward you.



- **Installation method**

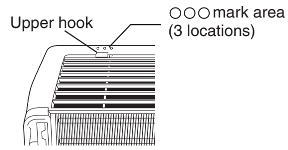
Align the tabs of the front panel with the grooves, and push all the way in. Then close slowly. Push the centre of the lower surface panel firmly to engage the tabs.

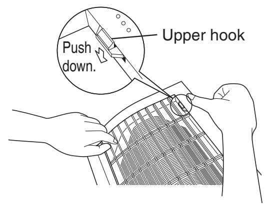


2. Removing and installing the front grille

- **Removal method**

1) Remove the front panel to remove the air filter.
2) Remove the 3 screws from the front grille.
3) In front of the ○○○ mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.



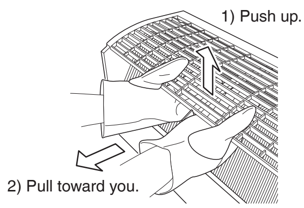


When there is no work space because the unit is close to ceiling

⚠CAUTION

- Be sure to wear protection gloves.

Place both hands under the centre of the front grille, and while pushing up, pull it toward you.



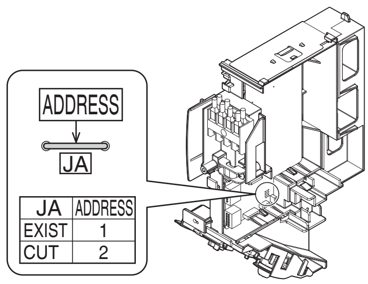
- **Installation method**

1) Install the front grille and firmly engage the upper hooks (3 locations).
2) Install 3 screws of the front grille.
3) Install the air filter and then mount the front panel.

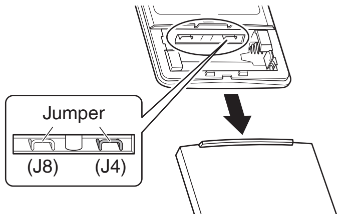
3. How to set the different addresses

When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

1) Remove the metal plate electrical wiring cover.
   (Refer to the **Removal/attachment methods of metal plate electrical wiring covers**.)
2) Cut the address jumper (JA) on the printed circuit board.
3) Cut the address jumper (J4) in the remote controller.
   - Be careful not to cut jumper (J8).



JA	ADDRESS
EXIST	1
CUT	2

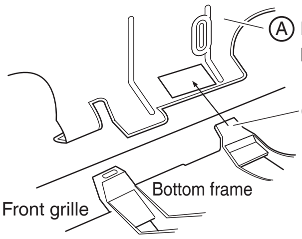


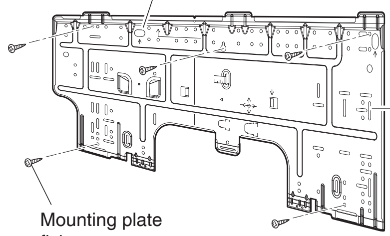
J4	ADDRESS
EXIST	1
CUT	2

Indoor Unit Installation Drawings

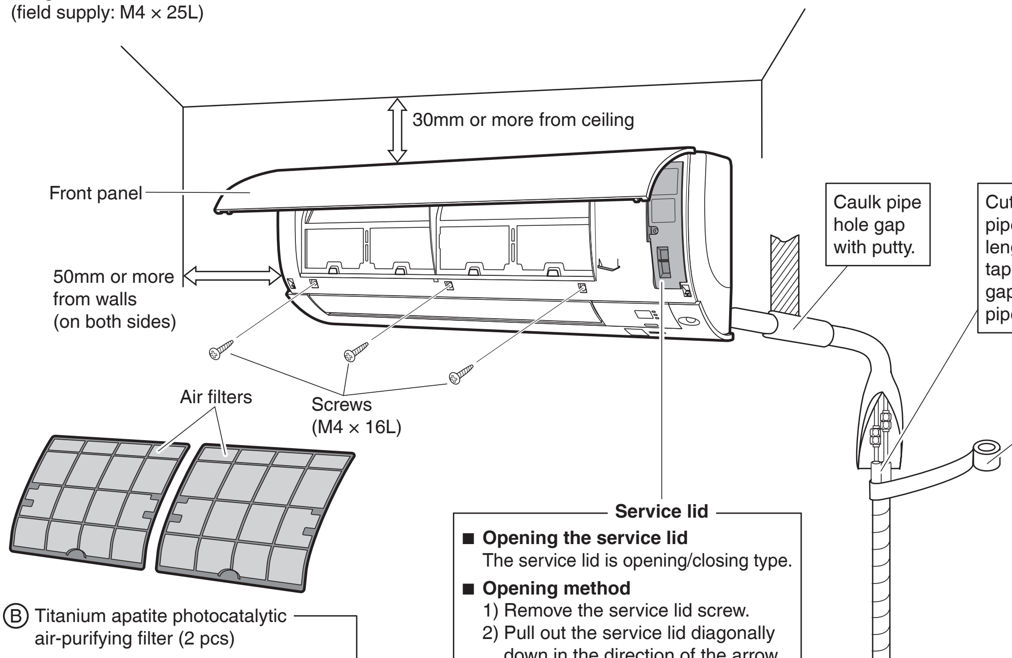
■ **How to attach the indoor unit**
Hook the claws of the bottom frame to the mounting plate.
If the claws are difficult to hook, remove the front grille.

■ **How to remove the indoor unit**
Push up the lower part of the front grille to release the claws.
If they are difficult to release, remove the front grille.

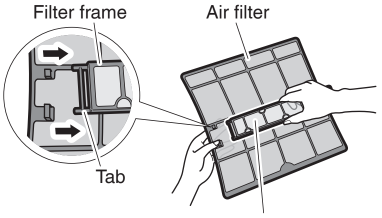




The mounting plate should be installed on a wall which can support the weight of the indoor unit.



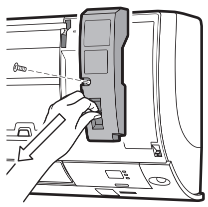
Ⓑ Titanium apatite photocatalytic air-purifying filter (2 pcs)

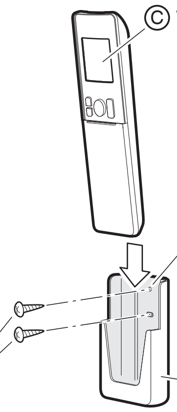


Service lid

■ **Opening the service lid**
The service lid is opening/closing type.

■ **Opening method**
1) Remove the service lid screw.
2) Pull out the service lid diagonally down in the direction of the arrow.
3) Pull down.





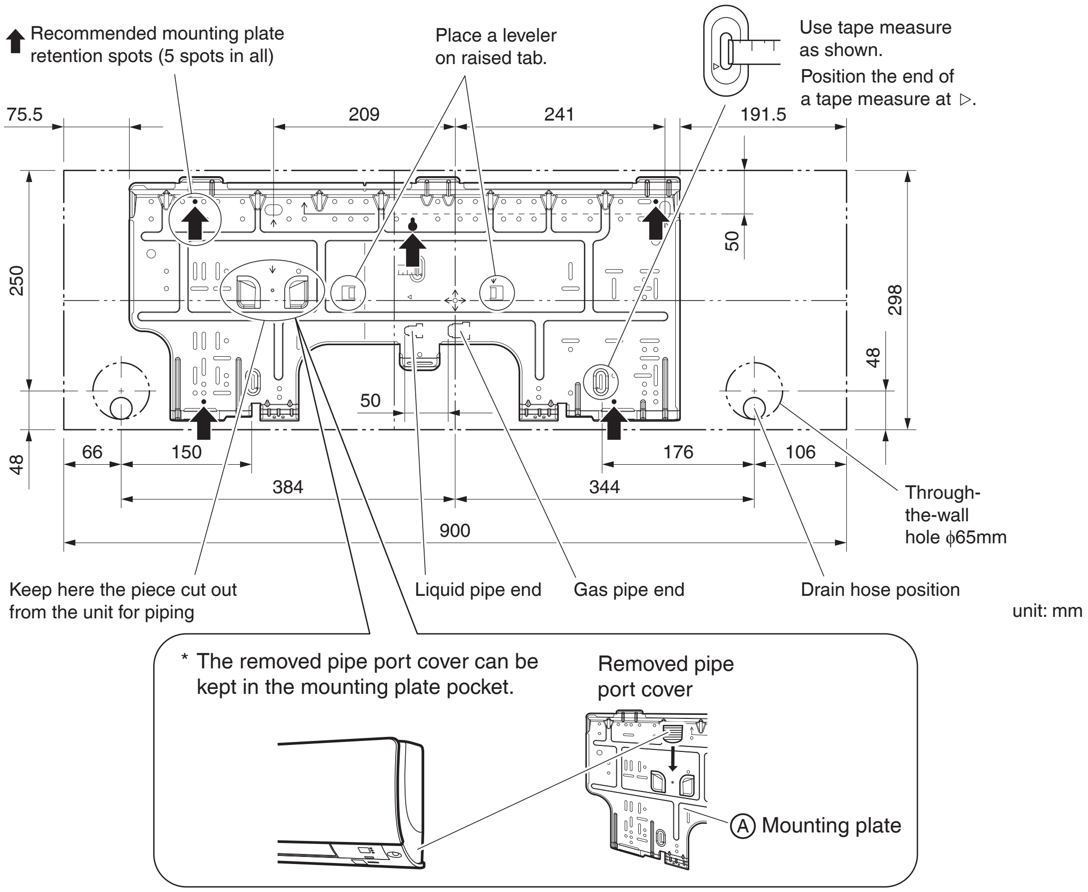
Before screwing the remote controller holder to the wall, make sure that control signals are properly received by indoor unit.

Indoor Unit Installation

1. Installing the mounting plate

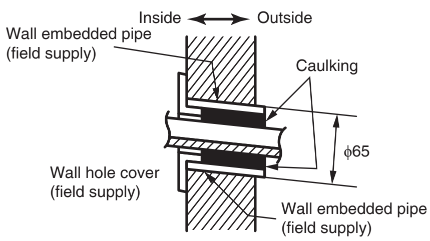
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
  1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
  2) Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



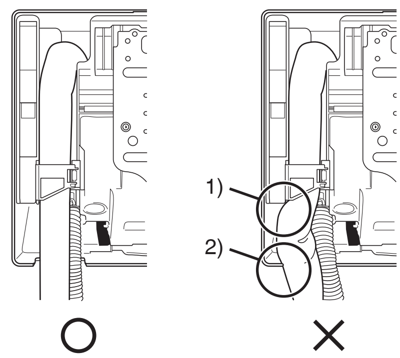
2. Boring a wall hole and installing wall embedded pipe

- For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.
- Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
  1) Bore a feed-through hole of 65mm in the wall so it has a down slope toward the outside.
  2) Insert a wall pipe into the hole.
  3) Insert a wall cover into wall pipe.
  4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

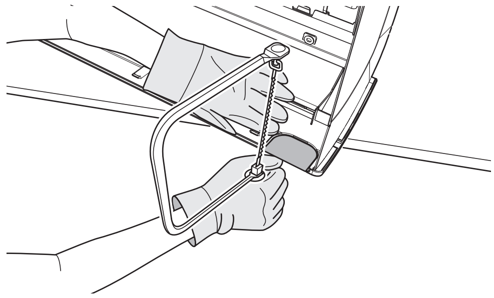


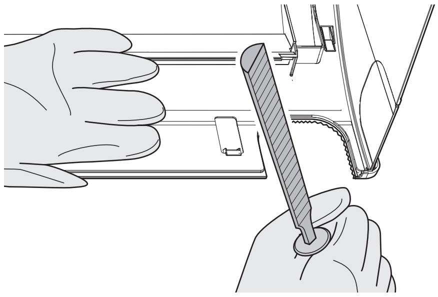
3. Installing the indoor unit

- In the case of bending or curing refrigerant pipes, keep the following precautions in mind.
  Abnormal sound may be generated if improper work is conducted.
  1) Do not strongly press the refrigerant pipes onto the bottom frame.
  2) Do not strongly press the refrigerant pipes on the front grille, either.



• Remove the pipe port cover as shown below.
1) Cut off the pipe port cover from inside the front grille using a copping saw.
Apply the blade of the copping saw to the notch, and cut off the pipe port cover along the uneven inner surface.
2) After cutting off the pipe port cover, perform filing. Remove the burrs along the cut section using a half round needle file.



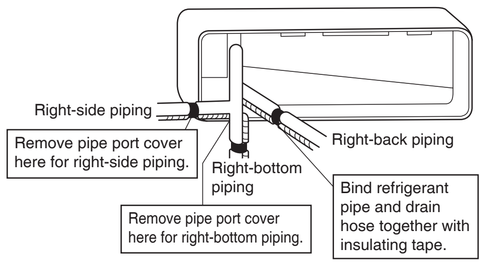


⚠ CAUTION

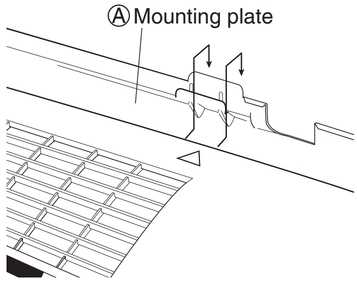
• If the pipe port cover is cut off using nippers, the front grille will be damaged. Please do not use nippers.
• Wear gloves during the pipe port cover removal.

3-1. Right-side, right-back, or right-bottom piping

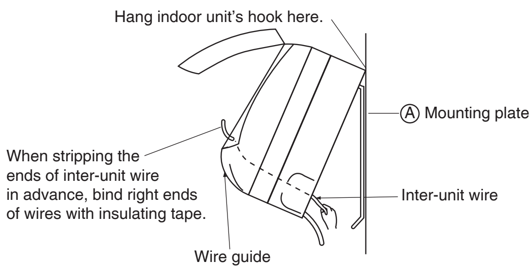
1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
2) Wrap the refrigerant pipes and drain hose together with insulation tape.



3) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks by using the △ markings at the top of the indoor unit as a guide.



4) Open the front panel, then open the service lid.
(Refer to preparation before installation.)
5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of tie wires upward for easier work in advance. (If the inter-unit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
6) Press the bottom frame of the indoor unit with both hands to set it on the mounting plate hooks. Make sure the wires do not catch on the edge of the indoor unit.



Indoor Unit Installation

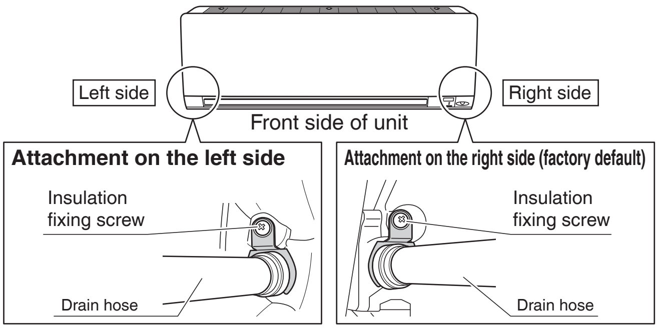
3-2. Left-side, left-back, or left-bottom piping

How to replace the drain plug and drain hose

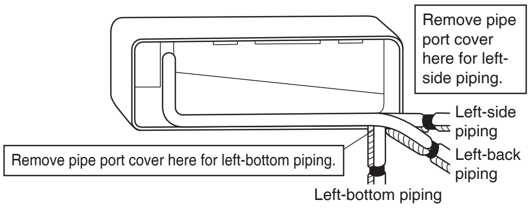
- **Replacing onto the left side**
  1) Remove the insulation fixing screw on the right and remove the drain hose.
  2) Remove the drain plug on the left side and attach it to the right side.
  3) Insert the drain hose and tighten with included insulation fixing screw.
     * (Forgetting to tighten this may cause water leakages.)

Drain hose attachment position

* The drain hose is on the back of the unit.

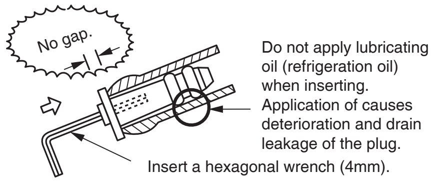


1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.

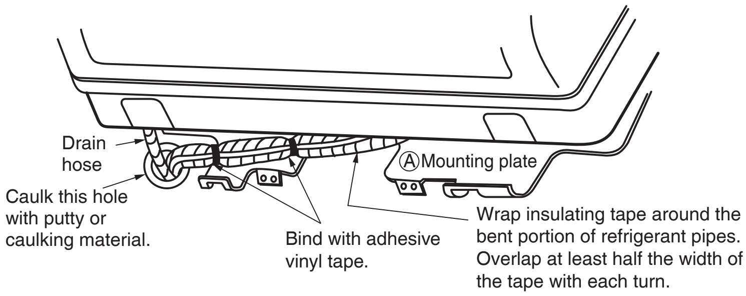


2) Be sure to connect the drain hose to the drain port in place of a drain plug.

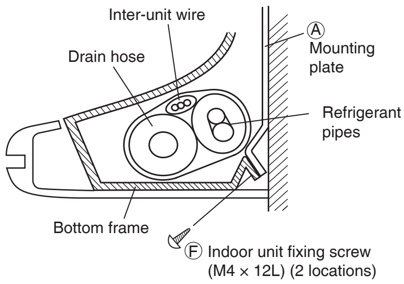
How to set drain plug



3) Shape the refrigerant pipes along the pipe path marking on the mounting plate.
4) Pass drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks, using the △ markings at the top of indoor unit as a guide.
5) Pull in the inter-unit wire.
6) Connect the inter-unit pipes.



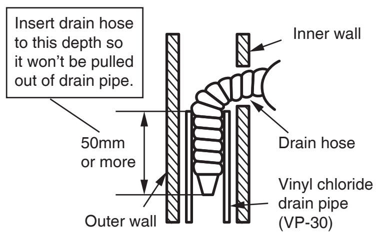
7) Wrap the refrigerant pipes and drain hose together with insulation tape as right figure, in case of setting the drain hose through the back of the indoor unit.
8) While exercising care so that the inter-unit wire do not catch indoor unit, press the bottom edge of indoor unit with both hands until it is firmly caught by the mounting plate hooks. Secure indoor unit to the mounting plate with indoor unit fixing screws (M4 × 12L).



3-3. Wall embedded piping

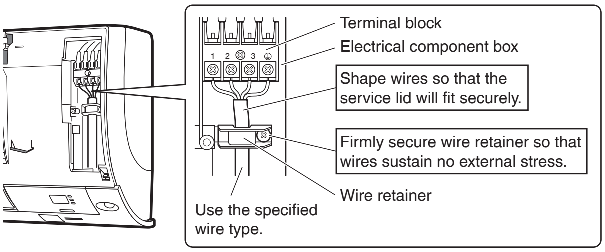
Follow the instructions given under left-side, left-back, or left-bottom piping.

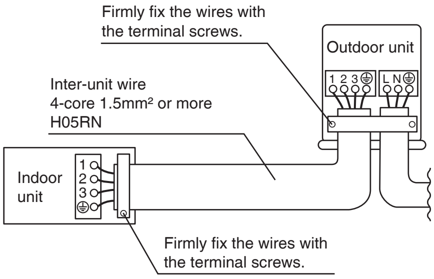
1) Insert the drain hose to this depth so it won't be pulled out of the drain pipe.



4. Wiring

1) Strip wire ends (15mm).
2) Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals.
3) Connect the earth wires to the corresponding terminals.
4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
5) Shape the wires so that the service lid fits securely, then close service lid.



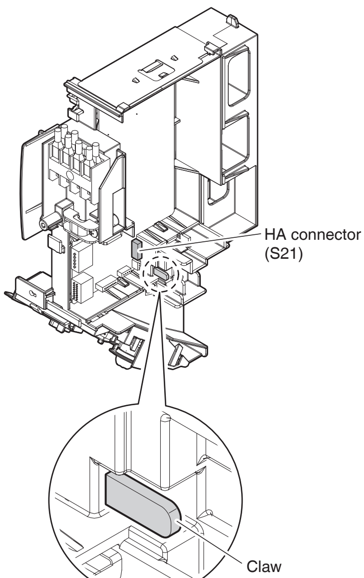


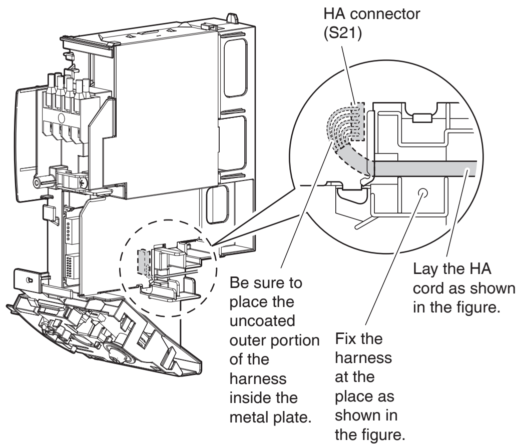
⚠ WARNING

- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

5. When connecting to an HA system. (Wired remote controller, central remote controller etc.)

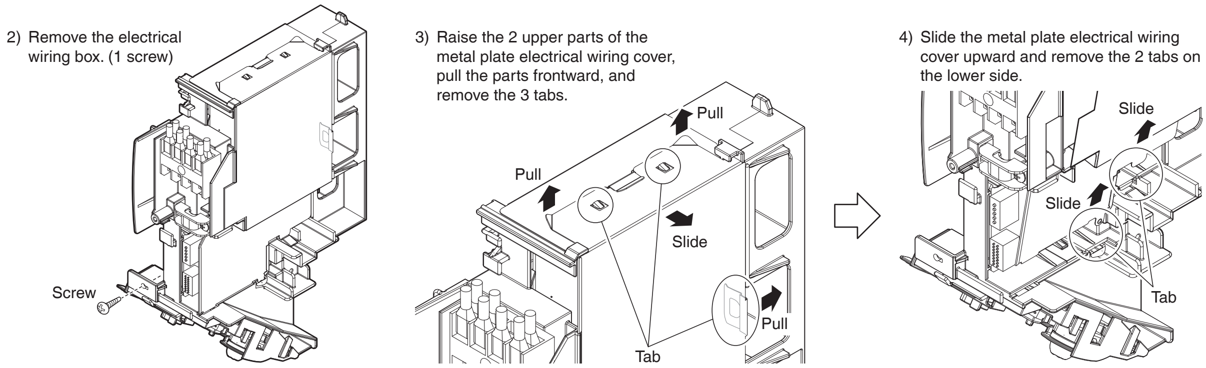
1) Remove the metal plate electrical wiring cover.
   (Refer to the **Removal/attachment methods of metal plate electrical wiring covers**.)
2) Snap off the claw.
3) Attach the connection cord to the S21 connector and pull the harness out through the notched part in the figure.
   - Be sure to place the uncoated outer portion of the harness inside the metal plate.
   - Fix the harness at the place as shown in the figure.
4) Replace the electrical wiring cover as it was, and pull the harness around, as shown in the figure.



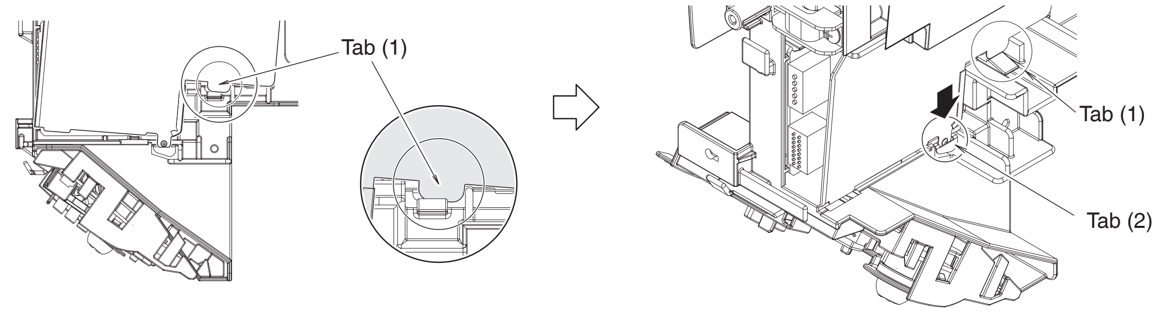


Indoor Unit Installation

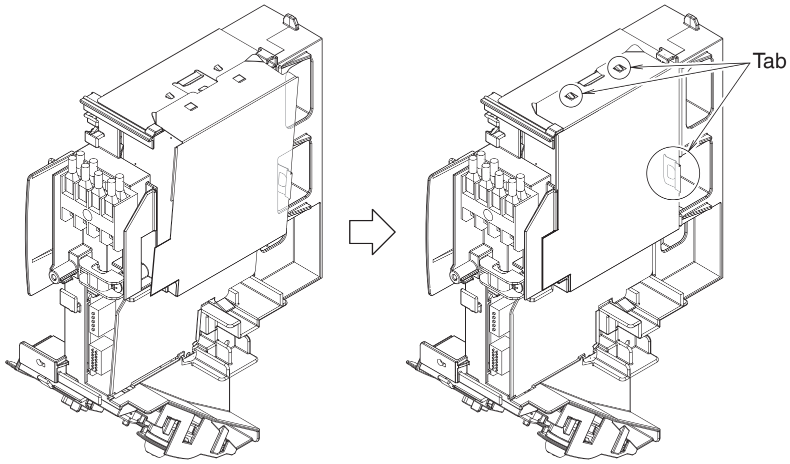
- **Removal methods of metal plate electrical wiring covers**
  1) Remove the front grille.
  2) Remove the electrical wiring box. (1 screw)
  3) Raise the 2 upper parts of the metal plate electrical wiring cover, pull the parts frontward, and remove the 3 tabs.
  4) Slide the metal plate electrical wiring cover upward and remove the 2 tabs on the lower side.



- **Attachment methods of metal plate electrical wiring covers**
  Attach the metal plate electrical wiring covers as shown below.
  1) Lean the metal plate electrical wiring cover as shown in the figure and attach tab (1) on the lower side to the electrical wiring box.
  2) Attach tab (2) on the lower side of the metal plate electrical wiring cover.

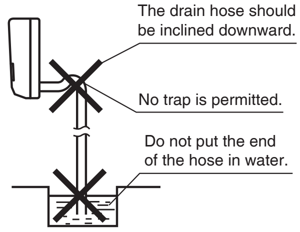


  3) Push in the upper part of the metal plate electrical wiring cover and attach the 3 tabs.

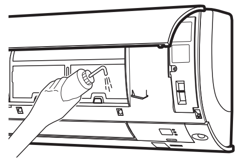


6. Drain piping

1) Connect the drain hose, as described right.

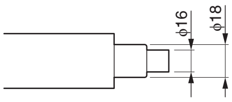


2) Remove the air filters and pour some water into the drain pan to check the water flows smoothly.

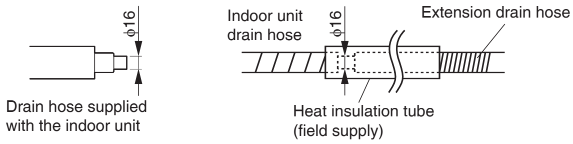


3) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.

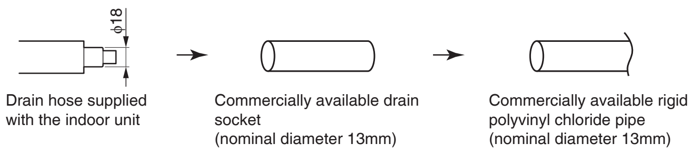
[Figure of hose front end]



4) When extending the drain hose, use a commercially available extension hose with an inner diameter of 16mm.
Be sure to thermally insulate the indoor section of the extension hose.



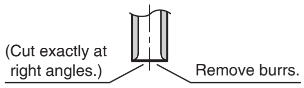
5) When connecting a rigid polyvinyl chloride pipe (nominal diameter 13mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 13mm) as a joint.



Refrigerant Piping Work

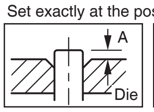
1. Flaring the pipe end

1) Cut the pipe end with a pipe cutter.
2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
3) Put the flare nut on the pipe.
4) Flare the pipe.
5) Check that the flaring is properly made.

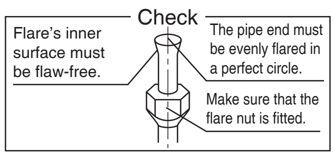


Flaring

Set exactly at the position shown below.



	Flare tool for R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.5mm	1.0-1.5mm	1.5-2.0mm



⚠ WARNING

- Do not use mineral oil on flared part.
- Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.
- Do never install a drier to this R410A unit in order to guarantee its lifetime.
- The drying material may dissolve and damage the system.
- Incomplete flaring may cause refrigerant gas leakage.

Refrigerant Piping Work

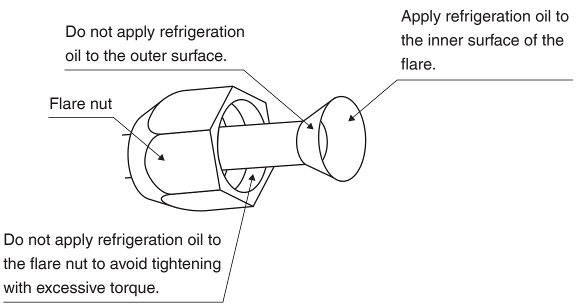
2. Refrigerant piping

⚠ CAUTION

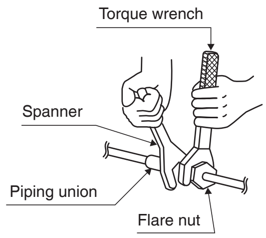
- Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.

[Apply oil]



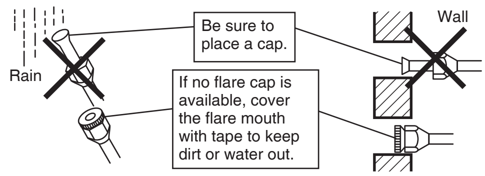
[Tighten]



Flare nut tightening torque		
Gas side		Liquid side
35, 42 class	50 class	1/4 inch
3/8 inch	1/2 inch	
32.7-39.9N • m (330-407kgf • cm)	49.5-60.3N • m (505-615kgf • cm)	14.2-17.2N • m (144-175kgf • cm)

2-1. Caution on piping handling

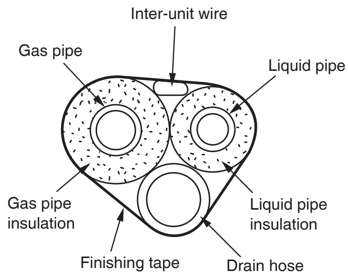
1) Protect the open end of the pipe against dust and moisture.
2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.



2-2. Selection of copper and heat insulation materials

- When using commercial copper pipes and fittings, observe the following:

1) Insulation material: Polyethylene foam
   Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/mh°C)
   Refrigerant gas pipe's surface temperature reaches 110°C max.
   Choose heat insulation materials that will withstand this temperature.



2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.

Gas side		Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
35,42 class	50 class	O.D. 6.4mm	I.D. 12-15mm	I.D. 8-10mm
O.D. 9.5mm	O.D. 12.7mm			
Minimum bend radius			Thickness 10mm Min.	
30mm or more				
Thickness 0.8mm (C1220T-O)				

3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

Trial Operation and Testing

1. Trial operation and testing

1-1 Measure the supply voltage and make sure that it falls in the specified range.

1-2 Trial operation should be carried out in either cooling or heating mode.

- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
  1) Trial operation may be disabled in either mode depending on the room temperature.
     Use the remote controller for trial operation as described below.
  2) After trial operation is complete, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
  3) For protection, the system disables restart operation for 3 minutes after it is turned off.

1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.

- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

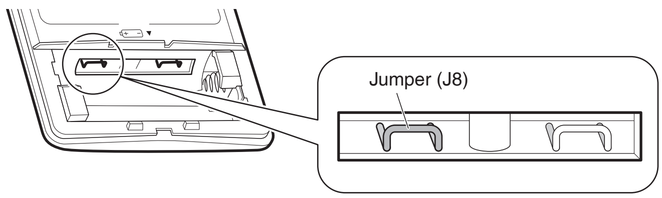
Trial operation from remote controller

1) Press “ON/OFF” button to turn on the system.
2) Press “TEMP” button (2 locations) and “MODE” button at the same time.
3) Press “TEMP” button and select “7ˉ”.
4) Press “MODE” button.
5) Trial operation terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press “ON/OFF” button.

2. Test items

Test items	Symptom (diagnostic display on RC)	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for inter-unit wiring.	Inoperative or burn damage	
Indoor or outdoor unit’s air inlet or air outlet has clear path of air.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	
☀ will appear when the MODE button is pressed.*	No heating	

* If the ☀ is not displayed, make sure not to cut the switching jumper (J8) for cooling operation when cutting the address jumper.
  If it has been cut, replace the remote controller.



DAIKIN INDUSTRIES, LTD.
Head office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan
http://www.daikin.com/global_ac/

DAIKIN EUROPE N.V.
Zandvoordestraat 300, B-8400 Oostende, Belgium

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